

0420

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,451

DATE: 12/05/2001

TIME: 15:57:15

Input Set : N:\Crf3\RULE60\09973451.raw

Output Set: N:\CRF3\12052001\I973451.raw

1 <110> APPLICANT: JACOBSON, Myron K.
2 JACOBSON, Elaine L.
3 AM, Jean-Christophe
4 LIN, Winston
5 <120> TITLE OF INVENTION: GENES ENCODING SEVERAL POLY(ADP-RIBOSE) GLYCOHYDROLASE
6 (PARG) ENZYMES,
7 THE PROTEINS AND FRAGMENTS THEREOF, AND ANTIBODIES IMMUNOREACTIVE
8 THEREWITH
9 <130> FILE REFERENCE: NIAD 201
10 <140> CURRENT APPLICATION NUMBER: 09/973,451
11 <141> CURRENT FILING DATE: 2001-10-09
12 <150> PRIOR APPLICATION NUMBER: US/09/302,812
13 <151> PRIOR FILING DATE: 1999-04-30
14 <150> PRIOR APPLICATION NUMBER: 60/083,768
15 <151> PRIOR FILING DATE: 1998-05-01
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19 <211> LENGTH: 4070
20 <212> TYPE: DNA
21 <213> ORGANISM: Bos taurus
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35 ttgataagtc accagttgaa aaaggtacac agtatttgaa gcagcatcag actgcggcta 720
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94 <211> LENGTH: 977
95 <212> TYPE: PRT
96 <213> ORGANISM: Bos taurus
97 <220> FEATURE:
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105      Phe Arg Val Pro Pro Ser Ser Ser Gly Cys Ala Leu Gly Arg Ala Gly
106      50          55          60
107      Gln His Arg Gly Ser Ala Thr Ser Leu Val Phe Lys Gln Lys Thr Ile
108      65          70          75          80
109      Thr Ser Trp Met Asp Thr Lys Gly Ile Lys Thr Val Glu Ser Glu Ser
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111      Leu His Ser Lys Glu Asn Asn Asn Thr Arg Glu Glu Ser Met Met Ser
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122      180         185         190
123      Pro Lys Asp Asp His Ser Asp Thr Asn Ser Glu Glu Ser Arg Asp Asn
124      195         200         205
125      Gln Gln Phe Leu Thr His Val Lys Leu Ala Asn Ala Lys Gln Thr Met
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132      260         265         270
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134      275         280         285
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137      Met Asp Val Asp Asn Ser Lys Asn Ser Cys Gln Asp Ser Glu Ala Asp
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140      325         330         335
141      Gln Thr Ala Asn Lys Pro Ser Arg Phe Gln Pro Arg Glu Ala Asp Thr
142      340         345         350
143      Glu Leu Arg Lys Arg Ser Ser Ala Lys Gly Gly Glu Ile Arg Leu His
144      355         360         365
145      Phe Gln Phe Glu Gly Gly Glu Ser Arg Ala Gly Met Asn Asp Val Asn
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147      Ala Lys Arg Pro Gly Ser Thr Ser Ser Leu Asn Val Glu Cys Arg Asn

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153	His Gln Arg Thr Glu Arg Lys Ile Pro Lys Tyr Ile Pro Pro His Leu						
154		435		440		445	
155	Ser Pro Asp Lys Lys Trp Leu Gly Thr Pro Ile Glu Glu Met Arg Arg						
156		450		455		460	
157	Met Pro Arg Cys Gly Ile Arg Leu Pro Pro Leu Arg Pro Ser Ala Asn						
158		465		470		475	
159	His Thr Val Thr Ile Arg Val Asp Leu Leu Arg Ile Gly Glu Val Pro						
160		485		490		495	
161	Lys Pro Phe Pro Thr His Phe Lys Asp Leu Trp Asp Asn Lys His Val						
162		500		505		510	
163	Lys Met Pro Cys Ser Glu Gln Asn Leu Tyr Pro Val Glu Asp Glu Asn						
164		515		520		525	
165	Gly Glu Arg Ala Ala Gly Ser Arg Trp Glu Leu Ile Gln Thr Ala Leu						
166		530		535		540	
167	Leu Asn Arg Leu Thr Arg Pro Gln Asn Leu Lys Asp Ala Ile Leu Lys						
168		545		550		555	
169	Tyr Asn Val Ala Tyr Ser Lys Lys Trp Asp Phe Thr Ala Leu Ile Asp						
170		565		570		575	
171	Phe Trp Asp Lys Val Leu Glu Glu Ala Glu Ala Gln His Leu Tyr Gln						
172		580		585		590	
173	Ser Ile Leu Pro Asp Met Val Lys Ile Ala Leu Cys Leu Pro Asn Ile						
174		595		600		605	
175	Cys Thr Gln Pro Ile Pro Leu Leu Lys Gln Lys Met Asn His Ser Ile						
176		610		615		620	
177	Thr Met Ser Gln Glu Gln Ile Ala Ser Leu Leu Ala Asn Ala Phe Phe						
178		625		630		635	
179	Cys Thr Phe Pro Arg Arg Asn Ala Lys Met Lys Ser Glu Tyr Ser Ser						
180		645		650		655	
181	Tyr Pro Asp Ile Asn Phe Asn Arg Leu Phe Glu Gly Arg Ser Ser Arg						
182		660		665		670	
183	Lys Pro Glu Lys Leu Lys Thr Leu Phe Cys Tyr Phe Arg Arg Val Thr						
184		675		680		685	
185	Glu Lys Lys Pro Thr Gly Leu Val Thr Phe Thr Arg Gln Ser Leu Glu						
186		690		695		700	
187	Asp Phe Pro Glu Trp Glu Arg Cys Glu Lys Leu Leu Thr Arg Leu His						
188		705		710		715	
189	Val Thr Tyr Glu Gly Thr Ile Glu Gly Asn Gly Gln Gly Met Leu Gln						
190		725		730		735	
191	Val Asp Phe Ala Asn Arg Phe Val Gly Gly Gly Val Thr Ser Ala Gly						
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193	Leu Val Gln Glu Glu Ile Arg Phe Leu Ile Asn Pro Glu Leu Ile Val						
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202 820 825 830
203 Tyr Leu Asp Gln Phe Val Pro Glu Lys Ile Arg Arg Glu Leu Asn Lys
204 835 840 845
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206 850 855 860
207 Ala Val Ala Thr Gly Asn Trp Gly Cys Gly Ala Phe Gly Gly Asp Ala
208 865 870 875 880
209 Arg Leu Lys Ala Leu Ile Gln Ile Leu Ala Ala Ala Val Ala Glu Arg
210 885 890 895
211 Asp Val Val Tyr Phe Thr Phe Gly Asp Ser Glu Leu Met Arg Asp Ile
212 900 905 910
213 Tyr Ser Met His Thr Phe Leu Thr Glu Arg Lys Leu Thr Val Gly Glu
214 915 920 925
215 Val Tyr Lys Leu Leu Leu Arg Tyr Tyr Asn Glu Glu Cys Arg Asn Cys
216 930 935 940
217 Ser Thr Pro Gly Pro Asp Ile Lys Leu Tyr Pro Phe Ile Tyr His Ala
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/973,451

DATE: 12/05/2001

TIME: 15:57:16

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Output Set: N:\CRF3\12052001\I973451.raw

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L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
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